

INTERNAL HIGH-PRESSURE SHAPING DEVICE

BACKGROUND AND SUMMARY OF THE INVENTION

[0001] The present invention relates to a device for internal high pressure forming.

[0002] A method and a device for the internal high pressure forming of a hollow profile closed at the periphery form the subject matter of a German Patent Application, still not published at the time of the present application, having the official reference 103 49 699.8 and dated October 24, 2003. The known device has an internal high pressure forming tool with a sealing arrangement which contains an axial punch having a section plunging into the hollow profile for holding and sealing an end of the hollow profile, this end projecting from the impression of the forming tool. Furthermore, a unit for generating a high fluid pressure is provided for expanding the hollow profile by means of fluidic internal high pressure. Owing to the fact that an outside diameter of the axial punch on the plunging section is equal to or falls slightly below the inside diameter of the hollow profile end, and owing to the fact that the sealing arrangement contains at least one clamping jaw and a pressing element which, when the section of the axial punch has plunged in, presses radially on the hollow profile end, the clamping jaw fixes the hollow profile end in position. These measures prevent the hollow profile blank from being able to be pulled off